

“Around the Room” Slideshow to accompany the library workshop –
Exploring Innovative & Open Educational Resources: Three Current Projects

March 28, 2014

Beyond Textbooks: Finding (and Creating) OER Multimedia

Anita Walz, Open Education & Online Learning Environments Librarian



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OER Learning Simulations

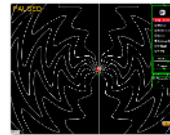
PhET INTERACTIVE SIMULATIONS Over 110 million simulations delivered University of Colorado Boulder

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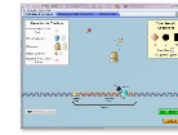
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 - New Sims
 - Physics
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- By Grade Level
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 - Middle School
 - High School
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Simulations > By Grade Level > University

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Radiating Charge



Gene Expression - The Basics



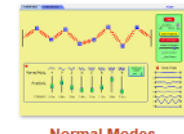
Plate Tectonics



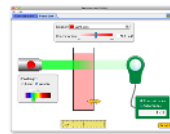
Fluid Pressure and Flow



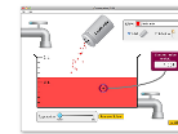
Under Pressure



Normal Modes



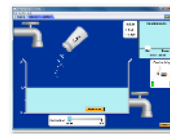
Beer's Law Lab



Concentration



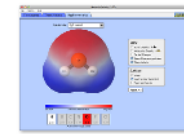
Molarity



Sugar and Salt Solutions



Molecule Shapes



Molecule Polarity

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PhET Interactive Simulations
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Instructional Modules

http://www.ahnrit.vt.edu/ProjectPortfolio/InstructionalModules/

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Virginia Agricultural Experiment Station

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Project Portfolio

Instructional Modules

The Instructional Modules section of our portfolio showcases projects we have completed with faculty, staff and students in the College. Applications for the modules include courses, training programs and youth development programs of 4-H.

Modules are in the Flash or Adobe Presenter format, which are easily delivered in the web environment. Update [Flash Player](#) in your browser to view.

Learning Modules | Training | 4-H

Fate and Transport of Fecal Bacteria in the Environment

Developed by Dr. Brian Benham and Rebecca Zeckoski, Department of Biological Systems Engineering, and Carl Estes and Belinda Carroll, AHNR-IT

Fate and Transport of Fecal Bacteria in the Environment is a simulation that provides a broad overview of fecal bacteria sources, and the fate and transport processes considered when performing a watershed assessment study. It also includes how Best Management Practices (BMPs) reduce non-point source pollution from fecal bacteria. (Format: *Flash, .swf*)



How Grass Grows

Developed by Dr. Erik Ervin and Dr. Ozzie Abaye, Department of Crop & Soil Environmental Sciences, and Carl Estes and Belinda Carroll, AHNR-IT

How Grass Grows is an interactive learning module that covers the role of grasses in society, the structures, growth and development of the grass plant, cool- and warm-season growth dynamics and proper timing and effects of management inputs. (Format: *Flash, .swf*)



Open Educational Resources – Where to search




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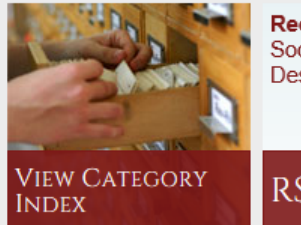
BR M




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SEARCH LEARNING EXERCISES



VIEW CATEGORY INDEX
RS



http://fedsearch.merlot.org/fedsearch/fedsearch.jsp



Multimedia Educational Resource for Learning and Online Teaching

Home | Search | Communities | My MERLOT | Membership | Add to Collection | Create Materials | News & Information | About MERLOT

MERLOT is the place to find online learning materials, web sites and educational digital libraries. Here are other [Learning Object Repositories](#) you can access through MERLOT.

Below, you can perform Federated searches of other digital collections.

Federated Search

Search Terms: Search (Maximum of 25 results will be returned from each collection)

Collections to Search:

- MERLOT** - Expertly vetted, annotated and peer reviewed collections of learning objects across the disciplines including Arts, Education, Humanities, Science and Technology, Social Science, Business and Mathematics/Statistics (USA) [↗](#)
- Connexions** - A place to view and share educational material made of small knowledge chunks called modules that can be organized as courses, books, reports, etc. Anyone may view or contribute. (USA) [↗](#)
- NSDL: National Science Digital Library** - Nation's online library for education and research in Science, Technology, Engineering, Mathematics (USA) [↗](#)
- MIT Open Courseware** - A web-based publication of virtually all MIT course content. OCW is open and available to the world and is a permanent MIT activity. (USA) [↗](#)
- OCW Search** - OCW Search is a search engine dedicated to helping you find the best free university courses online. OCW Search is an independent search engine that indexes the courses universities make available under the OpenCourseWare initiative. (USA, Europe & Japan) [↗](#)
- Open Commons** - A place for you to find and share open educational resources. (USA) [↗](#)
- Orange Grove** - The Orange Grove is an online library of openly available instructional resources for Florida's educators. We support faculty in meeting a core value of education: to openly share one's knowledge with others. (USA) [↗](#)
- Wikipedia** - The free encyclopedia that anyone can edit. (USA) *[Limited to 15 results]* [↗](#)
- World Images** - Educational image repository. (USA) [↗](#)
- Google Books** - Find the perfect book for your purposes and discover new ones that interest you (USA) [↗](#)
- Scribd** - A social publishing site where tens of millions of people share original writings and documents (USA) [↗](#)
- SoftChalk Cloud** - SoftChalk Cloud is the fastest, easiest, most flexible way to create and manage e-learning content for delivery inside or outside of a LMS. Educators can create engaging, interactive, media-rich learning content that directly integrates with any LMS or website. (USA) [↗](#)
- SlideShare** - the world's largest community for sharing presentations (USA, India) [↗](#)
- Flickr** - Popular picture uploading and sharing site. (USA) [↗](#)
- YouTube** - Popular video uploading and sharing site. (USA) [↗](#)


GLOBE Partners:

- ARIADNE Foundation for the European Knowledge Pool** - Foundation for the European Knowledge pool (Europe) [↗](#)
- LORNET: Learning Object Repositories NETWORK** - Portals and services for knowledge management for learning in computer and cognitive sciences (Canada) [↗](#)
- OJ: Open University of Japan (NIME)** A data retrieval service of e-learning courses and educational contents offered by higher education institutions (Japan) [↗](#)

Physics

- MERLOT Physics** - Physics collection within MERLOT (USA) [↗](#)
- comPADRE** - Network of educational resource collections supporting teachers and students in Physics (USA) [↗](#)

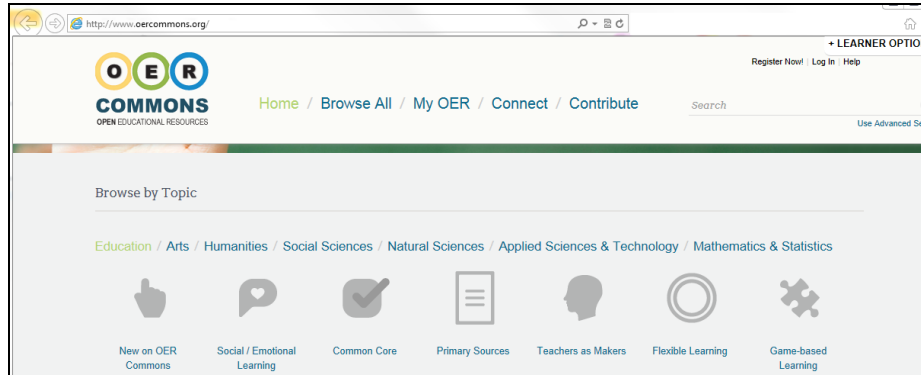
MERLOT II <http://www.merlot.org>

 MERLOT is a program of the California State University System partnering with education institutions, professional societies, and industry.



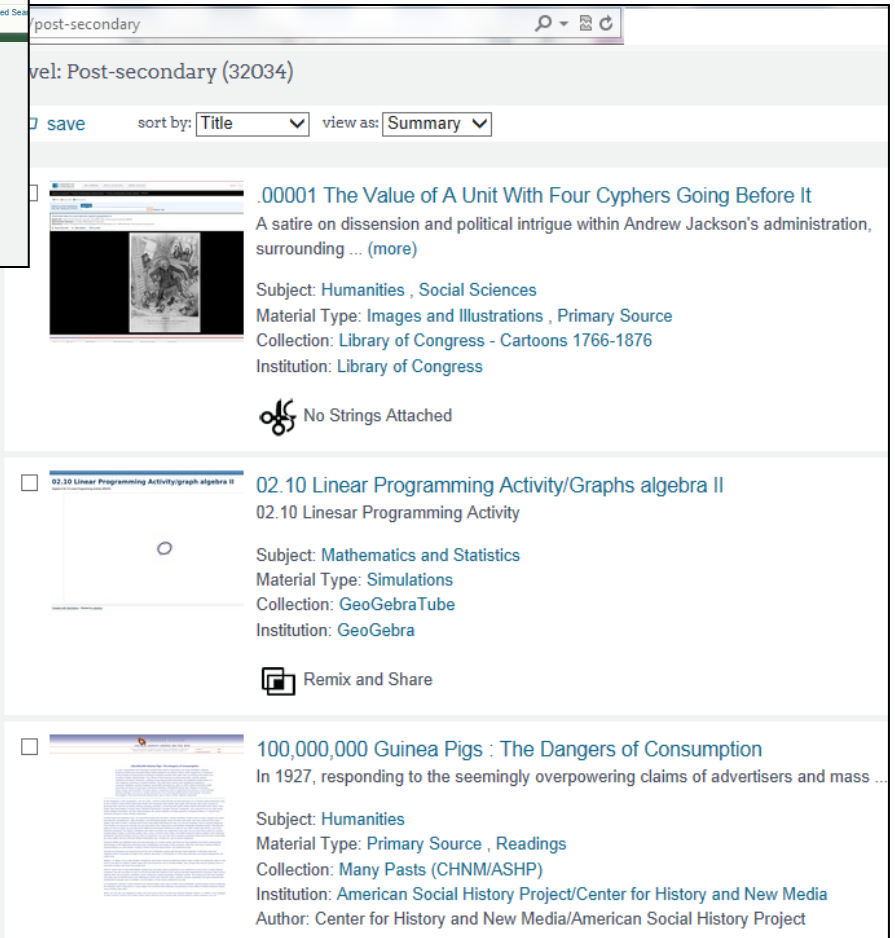
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Open Educational Resources – Where to search



<https://www.oercommons.org>

- Assessments
- Audio Lectures
- Case Study
- Full Course
- Games
- Homework and Assignments
- Images and Illustrations
- Interactive
- Lecture Notes
- Lesson Plans
- Primary Source
- Readings
- Reference
- Resource Review
- Simulations
- Syllabi
- Teaching and Learning Strategies
- Textbooks
- Unit of Study
- Video Lectures



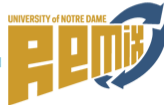
Digital Educational Resources – Ideas for creating your own



Cultivating Media-Rich Learning Experiences

- Explore
- Build
- Learn

Remix-T helps college **Teachers** develop engaging activities that incorporate images, video, and sound.
The companion site, Remix.ND.edu, helps college **Students** use and apply digital media.



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